SSS SIEDLE

Manual
DoorCom IP
DCIP 650-0

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1 System description DoorCom IP 650-0

DoorCom IP 650-0
Siedle DoorCom IP links the Siedle In-Home bus: Video with the IP world. Door calls are transformed via the DoorCom IP and transmitted via the IP network (Intranet) to certain PCs. The video image at the door station is converted and transmitted via the IP network.

The DoorCom IP Software Client is used here as a virtual in-house telephone for communication to the door station.
The Software Client must be installed on every PC in the network which is intended to receive a door call.

Switching and control commands can be visualized and operated using the Software Client.

Assignment of door calls to the Software Clients takes place using an IWA address (Interface Working Address) which is entered in the DoorCom IP with the aid of the configuration software.

The door call can optionally also be held over the telephone system using a telephone, while the picture is displayed by the Software Client and all control functions such as door release can also be initiated by the software. For this, a DCA 740-01 must additionally be connected to the DoorCom IP. The video camera picture continues to appear in the Software Client on the PC monitor.

2 Safety remarks System requirements

Danger

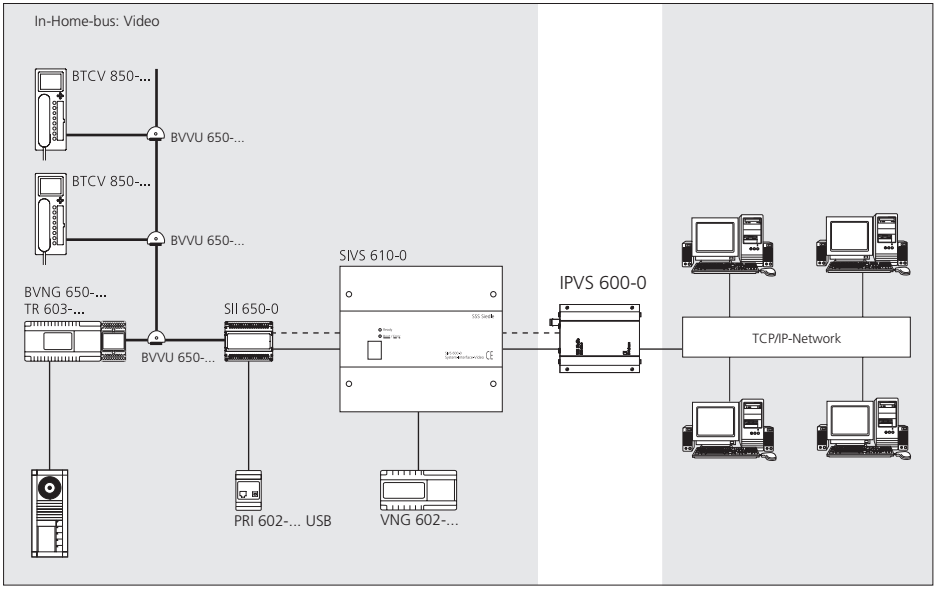
Installation, mounting and service work on electrical devices may only be performed by qualified electricians.
Failure to observe this regulation could result in the risk of serious damage to health or fatal injury due to electric shocks.
• When working at the device, observe the instructions for mains cut-off.
• Observe the standard DIN EN 60065!
When establishing the electronic connection, observe the requirements of VDE 0805 / EN 60950.
• The building installation **must** include an all-pole mains switch with a contact separation of at least 3 mm.
• Ensure that the connection point in the building installation is fused with max. 16 A.
• When planning, the required distributor space for switch panel mounted devices must be taken into account.
• External voltages >30 V AC/ DC must not be injected into the in-house telephones.

Devices with 230 V connection
In accordance with DIN VDE 0100 Part 410, Section 411.1.3 ensure that the DoorCom installation and the mains voltage are securely isolated. The sheathing of the connection cable (safety extra-low voltage) should only be stripped back far enough to ensure that reliable connection is possible.

Find out about the necessary safety measures and system requirements before starting installation and commissioning of the DoorCom IP.

System conditions for the bus programming software BPS 650-...
System requirements, software conditions:
• IBM-compatible PC with CD-ROM drive
• Intel Pentium III/1GHz, and compatible CPUs
• Main memory with at least 512 MB RAM
• Powerful graphics card
• Operating systems from Microsoft® Windows 2000/XP/ Vista/Windows 7
(no guarantee with Windows 95, 98SE and 98Me, and Windows NT 4.0 from SP3, as support for these operating systems has now been discontinued by Microsoft)
(currently also still without engagement for Windows Vista, USB drivers are already being reworked)
• Appr. 25 MB free space on the hard disk (for BPS 650-... incl. help file)
• Sufficient free storage space for project data (appr. 5-250 kB per project)
• Microsoft Internet Explorer 6.0 or higher
• Acrobat Reader 7.0 or higher
• Where necessary up to 150 MB free space on the hard disk for additional service packs, Internet Explorer, Acrobat Reader, etc.

3 Structure DCIP 650-0
In-Home bus: Video
Audio and video communication via IP



DCIP 650-...
In-Home bus link

The DCIP 650-... behaves in the system in the same way as one or more bus telephones and is consequently bound by the same system limitations (range and number of users).
The DCIP 650-... comprises the components:
• SIVS 610-.., system interface video server. Processing and adjustment of data, audio and video.
• SII 650-... system interface In-Home. Interface to Siedle In-Home bus.
• IPVS 600- .., IP video server. Processing and adjustment of audio and video, transmission of data, audio and video to the IP network.
One DCIP 650-... each is required per door. A maximum of 29 different call destinations can be dialled. Dialling is possible by means of a call button module, code lock module or display call module.
• **Bus programming software**
BPS 650-... V2.50 for programming
• Software Client DCIP SC 600-... for installation on PC users intended to receive door calls.

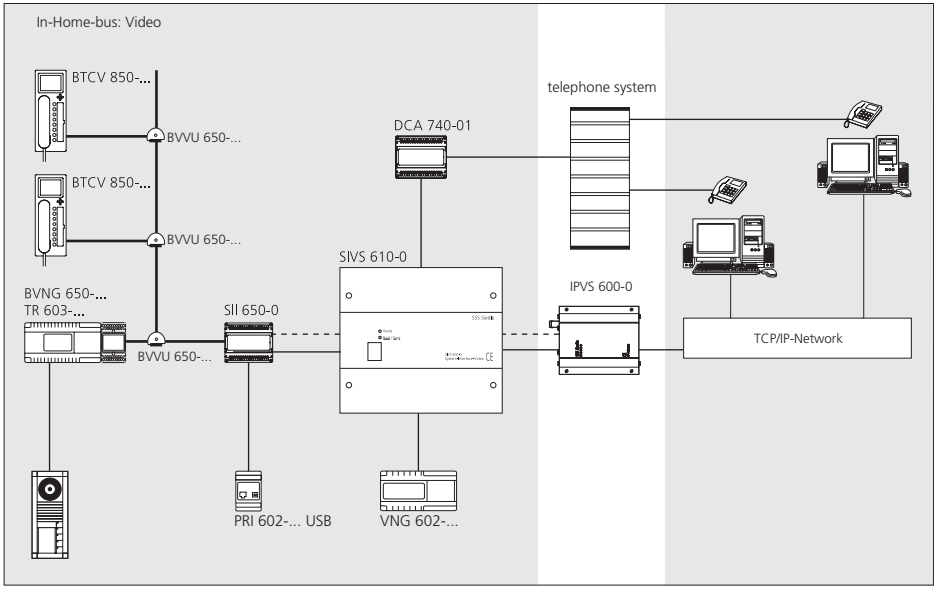
Power supply
The DCIP 650-... is supplied completely via the video line rectifier VNG 602-... . Connection takes place at the SIVS 610-...
An optionally connected DCA 740-01 is also supplied from the SIVS 610-... .
The a/b public network interface is supplied from the TC system. It is not possible to connect an individual public network telephone directly to the a/b line of the DCA 740-01.

Functions
• Door call from the In-Home bus and signalling
• Text display of which door or which bus telephone is calling.
• Door release actuation
• Light actuation
• Direct dialling and connection to a door station or a bus telephone.
• Initiation of switching or control functions
• Reception of status messages from the In-Home bus

Mounting and installation
Connection of the DCIP 650-... to the In-Home bus takes place at terminals TaM/TbM at the SII 650-... on the monitor branch. Dual terminals TaM/TbM are provided for loop through. Connection can alternatively take place using a distributor BVVU 650-... . The devices are intended for switch panel mounting. These should preferably be mounted directly one next to the other.
The maximum conductor length for device connection between SIVS 610-... and SII 650-... may be 1 metre. The SII 650-... is linked to the SIVS 610-... with 6 cores.

Commissioning and programming
After connection of the supply voltage, the devices SII 650-... and SIVS 610-... can be programmed with the aid of a PRI 602-... USB (Firmware V2.0 or higher)via the PC.

Autocommunication via the telephone system
Video communication via IP



Prior to commissioning the DoorCom IP, the entire In-Home system must be programmed.
The components SII 650-..., SIVS 610-... and BVNG 650-... which are in the same line must have the same address set. Programming of the SIVS 610-... and SII 650-... takes place with bus programming software BPS 650-...

No programming is required for the DCA 740-01. For programming and configuration of the TC system, see the relevant product information and programming instructions of the manufacturer.

Performance features DoorCom IP 650-...
- Transfer of door calls with/without video
- Audio transmission possible via the telephone network (DCA 740-...)
- Actuation of the door release and light.
- Selective connection to a door station. (Audio and/or video)
- Speech connection is possible both to In-Home doors (across lines) and also to In-Home telephones (only within a line)
- Doors and bus telephones can be selectively connected / called
- Devices such as BSE 650-..., BSM 650-... etc. can be actuated across different lines. (but not bus telephones)
- Capacity to manage up to 100 messages / 100 functions
- Parallel calls (bus telephones and SII users) are possible
- Pure video connections can also be established to the In-Home bus
- Communication to the SIVS 610-... takes place via the bidirectional SUS interface with the Vario bus protocol
- Programming takes place via the SUS interface and via the USB-PRI 602-...
- Firmware update possible via the SUS interface
- The address setting for connection to the Vario bus takes place via a BCD rotary encoding switch
- Max. 31 users possible per DCIP 650-... .

3 Terms

Client
PC user connected to a network.

Gateway
Gateways link two different systems and create connections across network boundaries. During this process, both the physical transmission modes and also protocols and addresses are adjusted accordingly.

Full duplex
Two speaking users e.g. door station and remote station have an unrestricted speech connection. Open duplex communication, i.e. as opposed to the simplex speech mode.

Half duplex
Two speaking users have one speech connection which they can use alternately, also known as push to talk. The speech direction is controlled by the user via the PC client.

HTTP
The Hypertext Transfer Protocol is a protocol used for the transmission of data via a network. It is used mainly to load websites and other data from the Internet into a web browser.

Hub
The term hub when used in relation to network technology describes a device which links network nodes in a star formation. Normally, the term hub is used to denote a multiport repeater. It is used in order to link network nodes or other hubs, for example by means of an Ethernet.

IP address
Internet Protocol address
An IP address is a number which permits PCs and other devices in an IP network to be addressed. In technical terms, the number is a 32-or 128-bit binary number.

IP
Internet Protocol
The IP is a network protocol in widespread use in computer networks. IP forms the first layer of the Internet protocol family which is independent of the transmission medium. This means that computers can be grouped within a network into logical units known as subnets by means of an IP address and subnet mask.

IGMP V3
The Internet Group Management Protocol is based on the Internet Protocol (IP) and permits IP multicasting (group communication) in the Internet. IP multicasting is the distribution of IP packages under an IP address to several stations simultaneously. Here, it is possible to specify which source is required for the multicast stream.

IWA
Interface working address
Six-digit address with which the system interface video server e.g. SIVS IP 610-... addresses the users.

LAN
Local Area Network
Local, cable-linked network.

Multicasting
Term to denote group/parallel calls with video image to several PC users which have the Software Client installed. For this to be possible, the UDP and IGMP V3 protocols must be implemented in the network.

Push to Talk
In case of a connection using the half-duplex mode (push-to-talk) a button always has to be pushed to change the speech direction.

Router
A router is a network device which links several computer networks. Network packages of a protocol arriving at the router are analysed for information and forwarded or routed to the intended destination network.

RS232
Designation for a serial interface, for instance the COM interface of a PC.

RS485
Interface for serial data transmission in the half-duplex mode. Transmission to a pair of cores.

TCP
Transmission Control Protocol
The TCP is a protocol which determines the way in which data is exchanged between computers. All operating systems in modern computers have TCP capability and use this protocol for data exchange with other computers. The protocol is a reliable, connection-oriented transport protocol used in computer networks. It is part of the internet protocol family, which forms the foundation of the Internet.

Server
A server is a program which waits to be contacted by a client program, after which it exchanges data with the client program. The hardware on which the server runs is known as the host.

Subnet mask
The subnet mask, also known as network mask, is a bit mask which separates an IP address into a network and a device or host section. It is used in IP networks in order to make routing decisions.

SUS
Siedle Universal Interface

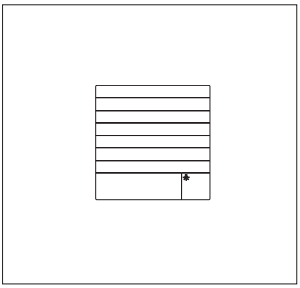
UDP
User Datagram Protocol
The UDP is a minimal connectionless network protocol which belongs to the transport layer of the Internet protocol family. It is the task of the UDP to assign data transmitted via the network to the right application.

USB
The universal serial bus (USB) is a serial bus system for connection of a computer to external devices. Devices or storage media equipped with USB can be connected in running operation, and connected devices and their characteristics automatically detected.

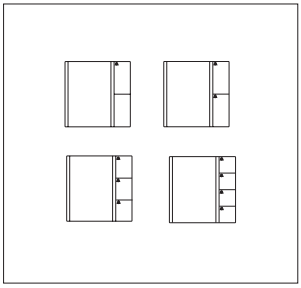
Vario-bus
Various different input and control units can be connected to the Vario bus. It comprises 4 cores. The information on the Vario bus is transmitted via the RS485 protocol.

Web browser
Software for the display and indication of Internet pages or corresponding configuration pages. e.g. Internet Explorer or Firefox.

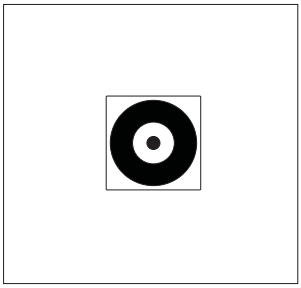
4 Components for DC IP 650-...
Bus door loudspeaker module, bus call button modules, camera module



BTLM 650-04
Bus door loudspeaker module for In-Home bus.
Loudspeaker and microphone integrated, illuminated light button, integrated door release contact (DR) Contact load max. 15 V AC, 30 V DC, 2 A, switching time DR fixed at 3 seconds. Acoustic feedback when actuating the call buttons.

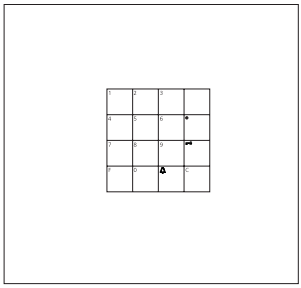


BTM 650-01 - BTM 650-04
Bus call button modules for In-Home bus.
1-4 call buttons, integrated LED lighting. Connection via ribbon cable to the bus door loudspeaker. Supply to the LED lighting via terminal b and c with 12 V AC, current consumption 25 mA per bus call button module BTM 650-... .

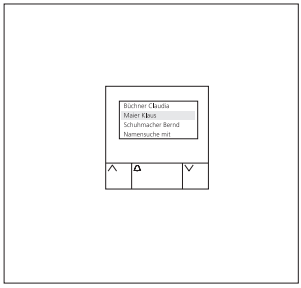


BCMC 650-...
Bus colour camera module for Siedle-In-Home bus: Video.
Integrated 2-step heating, day/night switching, infrared lighting and video signal converter. Supply via Siedle In-Home bus: Video, heating supply 12 V AC, 100 mA.

4 Components for DC IP 650-...
Input modules

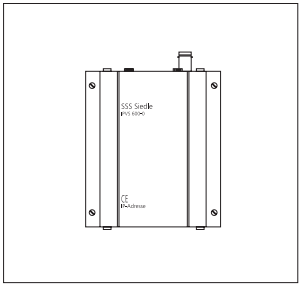


COM 611-02
Code lock module as an input unit in conjunction with the Siedle Vario bus.
A C button for deleting incorrect inputs. An integrated LED can be used via an external potential-free contact as a status indication.
Operating voltage 12 V AC/DC
Current consumption max. 100 mA
Ambient temperature
-20°C to +70°C
Dimensions: 99 x 99 mm

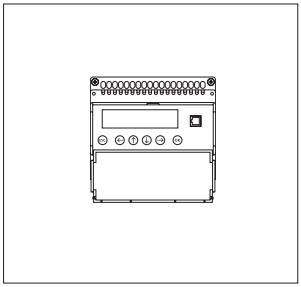


DRM 611-0
Display call module as an input unit with 4-line display for placing door calls.
To scroll through the name index, there are two arrow keys provided for „up/down". An external DR button can be connected.
• Display showing 4 lines of 18 characters each, with LED backlighting
• 3 displacement-free piezo buttons
• Button actuation with acoustic confirmation
• Illuminated symbols
• Operating voltage 12V AC/DC
• Current consumption max. 200 mA
• Ambient temperature
-20°C to +70°C
Dimensions: 99 x 99 mm

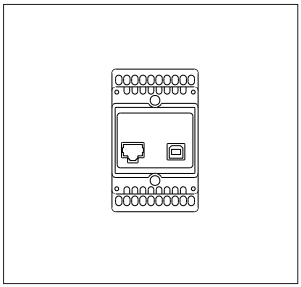
4 Components for DC IP 650-...
Programming, video server, DoorCom



IPVS 600-0
System interface video server
Processing and adjustment of audio and video, transmission of data, audio and video to the IP network.
Dimensions 112 x 85 x 40 mm

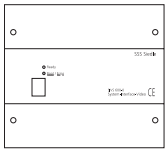


DCA 740-01
The DoorCom Analog DCA 740-01 can be connected to a universal a/b interface.
In conjunction with the DCIP 650-... it serves as an alternative speech connection if no speech connection via PC is preferred.
Connection takes place at the standardized a/b interface of a TC system (analogue PBX extension) or directly at the analogue telephone network.
Dimensions:
107 x 89 x 60 mm

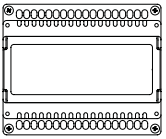


PRI 602-... USB
Programming interface for connection of a Windows PC via USB port to the In-Home interface SII 650-... .
Commissioning, programming and servicing facility for the entire system using BPS 650-... software.

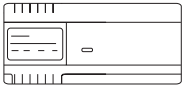
4 Components for DC IP 650-...
Interfaces, power supply



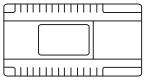
SIVS 610-0
System interface video server for connection of the In-Home bus: Video to IP video server. The SII 650-... is required for connection.
Dimensions 144 x 130 x 55 mm



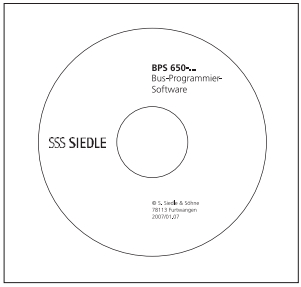
SII 650-0
The system interface In-Home converts the signals from the In-Home bus: Video for the SIVS 650-...
Dimensions 107 x 89 x 60 mm



VNG 602-...
Video line rectifier in a 10-grid housing.
Primary: 230 V AC, 50/60 Hz
Secondary: 30 V DC, 1.1 A stabilized.
For supply to the SIVS 610-... and the connected interfaces.



BVNG 650-0
Bus video line rectifier in a 9-grid housing.
Primary: 230 V AC, 50/60 Hz,
Door release contact 15 V AC, 30 V DC, 2 A, switching time fixed at 3 seconds. Light contact 15 V AC, 30 V DC, 2 A, switching time 0.4 seconds, capable of being changed with bus programming software BPS 650-...

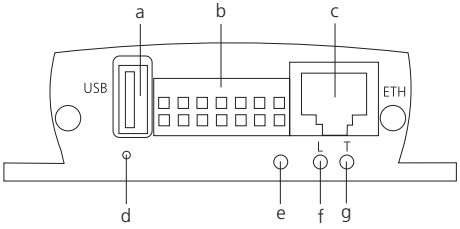


BPS 650-0 from V2.50
Bus programming software for programming In-Home bus systems. For this, the programming interface PRI 602-... is also required in conjunction with a BIM 650-... or the PRI 602-... USB.

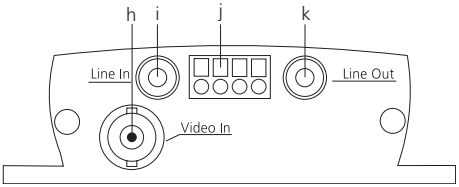
DCIP SC 600-0
DoorCom IP Software Client
PC program which depicts a virtual in-house telephone with video on a PC monitor.
Door communication with video to one or more door stations possible.
Implementing switching and control functions e.g. door release, light switching or indication of messages on the PC monitor.

For each installation of the Software Client on a PC, a licence is required for the DCIP SC 600-0.

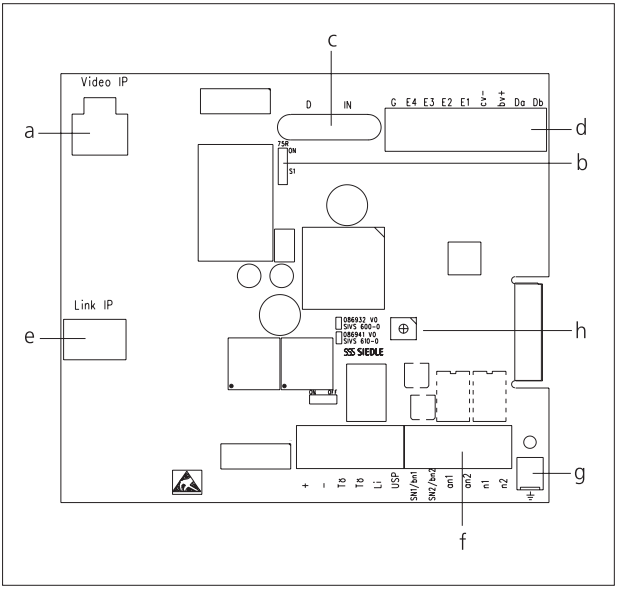
5 Terminals
DCIP 650-...



Connections and LEDs IPVS 600-0
a No function
b Junction box to the SIVS 610-...
c RJ45 socket ETH network connection
d Reset button to recreate the as-delivered status (after a reset, the Siedle modes must be reinstalled, see page 29.)
e LED operating status lights up in green on readiness for operation
f LED L lights up in green with an existing network connection
g LED T flashes orange on data transmission via the network



Terminals IPVS 600-0
h Video input 1Vss from the SIVS 610-...
i Audio line In to the SIVS 610-...
j Terminal plug for control signals
i Audio line Out to the SIVS 610-...



Terminals
SIVS 610-...
a Video signal 1 Vss (cinch jack)
b Terminating resistor 75 Ohm ON/ OFF
c IN = video signal 1 Vss input, D =video signal 1 Vss throughput
d Terminals for installation
e Connection to IPVS 600-...
g Not assigned
d Terminals for installation
g Grounding terminal
h BCD rotary switch for the In-Home bus line address

5 LED display SIVS 610-...

LED signalling IPVS 600-...

The underneath of the IP video server IPVS 600-... has 3 LEDs which display operating statuses and can provide an indication of possible errors.

LED operating status	Function
OFF	IPVS 600-... is switched off.
Lights up in green	IPVS 600-... is switched on
Flashes green	Access to the IPVS 600-...
Lights up in red (briefly)	Start process running
Lights up in red (continuous)	Error in the device or failed upload

LED L	
Lights up in green	Network connection exists

LED T	
Lights up in orange	Active data transmission via the network

LED signalling SIVS 610-...

Switching on

LED green	LED red	Function
OFF	ON	After reset, power on: Device boots to operating status.
ON	ON	The boot area is checked. Software runs in the flash
Fast flashing	ON	After a software update, the boot area is recreated. This can take up to around 3 minutes.

Operation

LED green	LED red	Function
ON	OFF	Booting is complete. All OK. Normal status
Slow flashing	OFF	Display, a connection exists
Fast flashing	OFF	A software update or reconfiguration process is under way

Fault

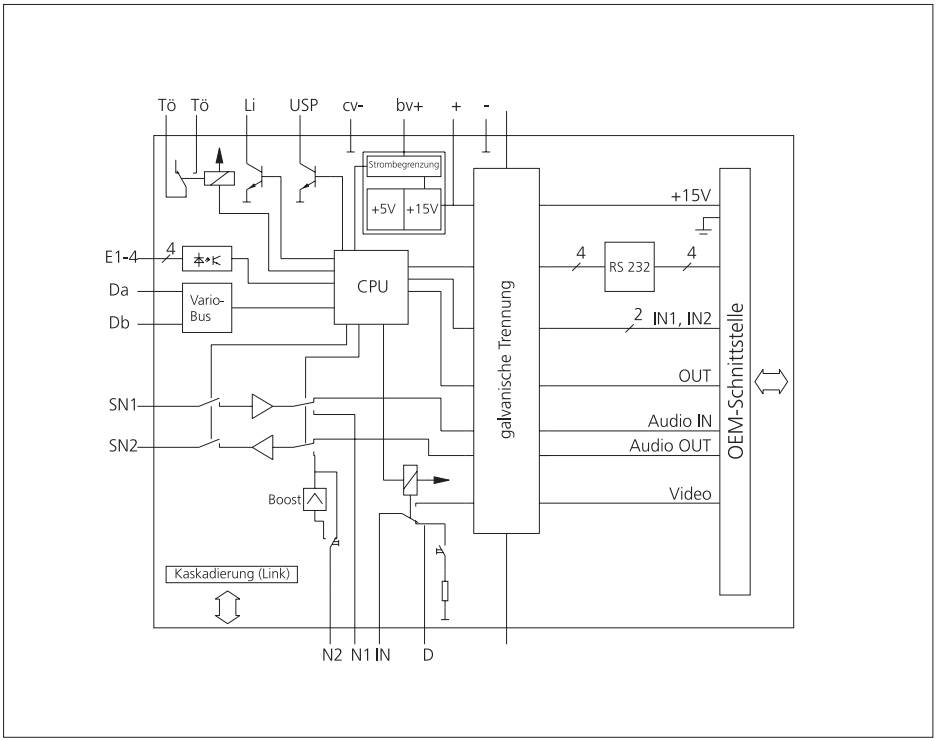
LED green	LED red	Function
OFF	Slow flashing	ERROR, software running only in bootloader. Program memory defective. (Device defective, possibly new software update or exchange.)
ON	Slow flashing	Variobus address error (error remedy possible on site)
ON	Fast flashing	The 15 V power supply (terminal bv, cv) is overloaded. (Error remedy possible on site)
OFF	OFF	If supply voltage is definitely connected, the device is defective. (Exchange)

Frequencies: Slow appr. 2 Hz, fast appr. 16 Hz

5 Terminals
SIVS 610-0

Block diagram SIVS 610-0

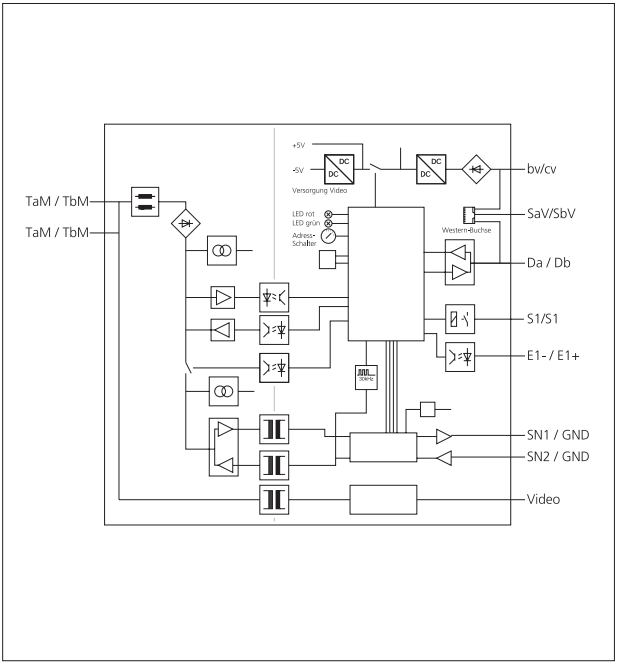
G	Reference for the inputs E1–E4
E4	Input 4, not used
E4	Input 3, not used
E4	Input 2, not used
E4	Input 1, not used
cv- bv+	Pick off supply voltage for Vario bus, 15 V DC, max. 300 mA
Da/Db	Vario bus
+ -	Supply voltage 24-30 V DC
DR DR	Not used, DR via TLC 640-02
Li	not used
USP	Not used
SN1	RF signal, path
SN2	SIM 740-... to SIVS 610-...
n1 n2	RF signal for connected DCA 740-01



5 Terminals
SII 650-0

Block diagram SII 650-0

TaM/TbM	In-Home bus: Video Input and output
E1+/E1-	Input for signalling function, 4-30 V DC or 4-20 V AC
S1/S1	relay contact max. 24 V, 2 A
SN1/GND	RF signal Out
SN2/GND	RF signal In
SaV/SbV	In-Home bus internal connection
bv/cv	Terminal of the supply voltage for Vario bus
Da/Db	Vario bus



LED signalling SII 650-...

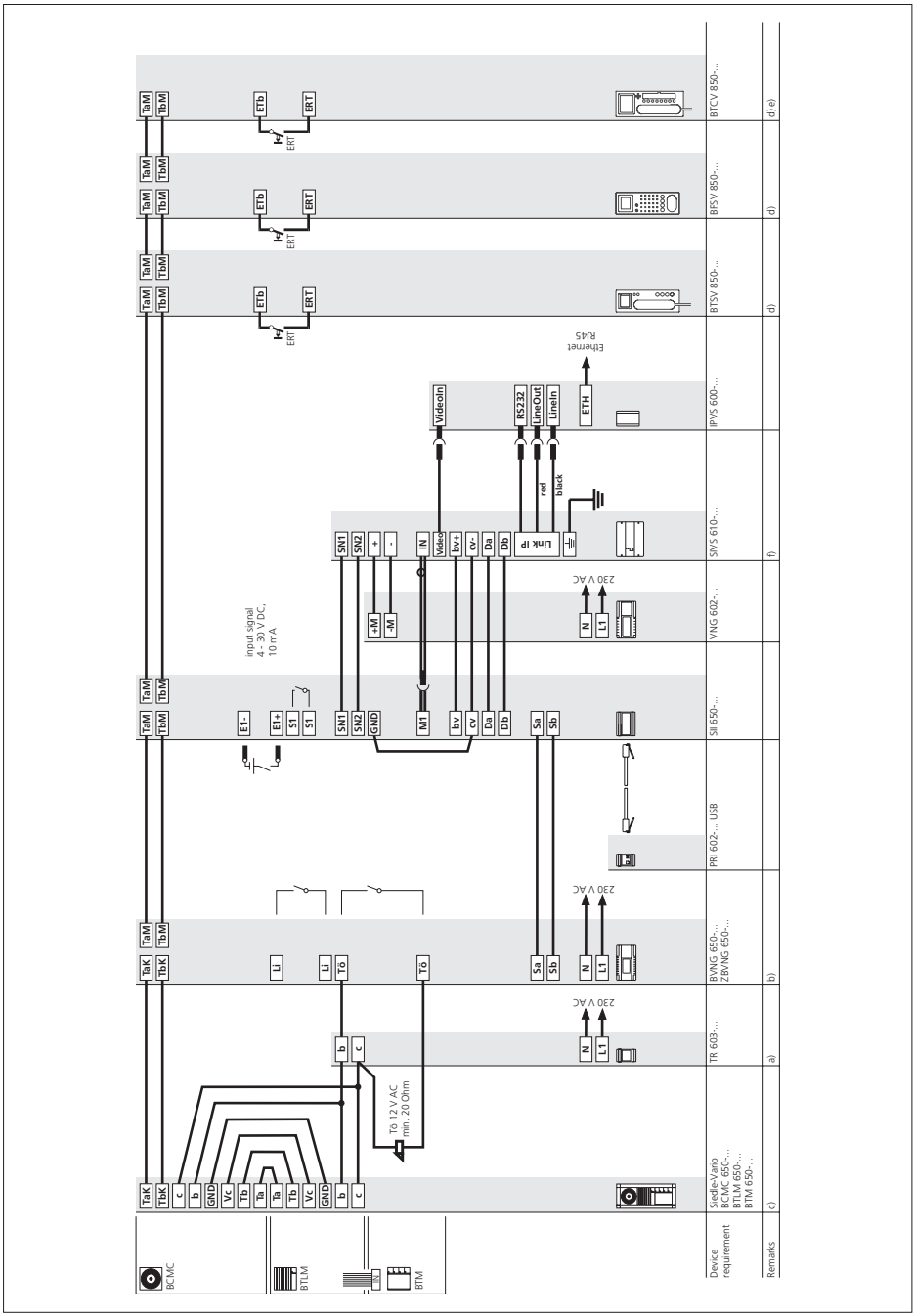
The system interface In-Home bus SII 650-... is fitted with 2 LEDs under the device lid which display operating statuses and provide an indication of possible faults.

Switching on

LED1	LED2	Function
OFF	ON	Power On or Reset: Device boots to operating status.
ON	OFF	Operating status display
Slow flashing	OFF	Operating status display with active connection
ON	Fast flashing	Variobus address error (error remedy possible on site)
Fast flashing	OFF	updating Firmware Update

Frequencies: Slowly appr. 1 Hz, quickly 2 Hz, flashing appr. 16 Hz

5 Installation
DCIP 650-...



In-Home bus: Video
Single line system

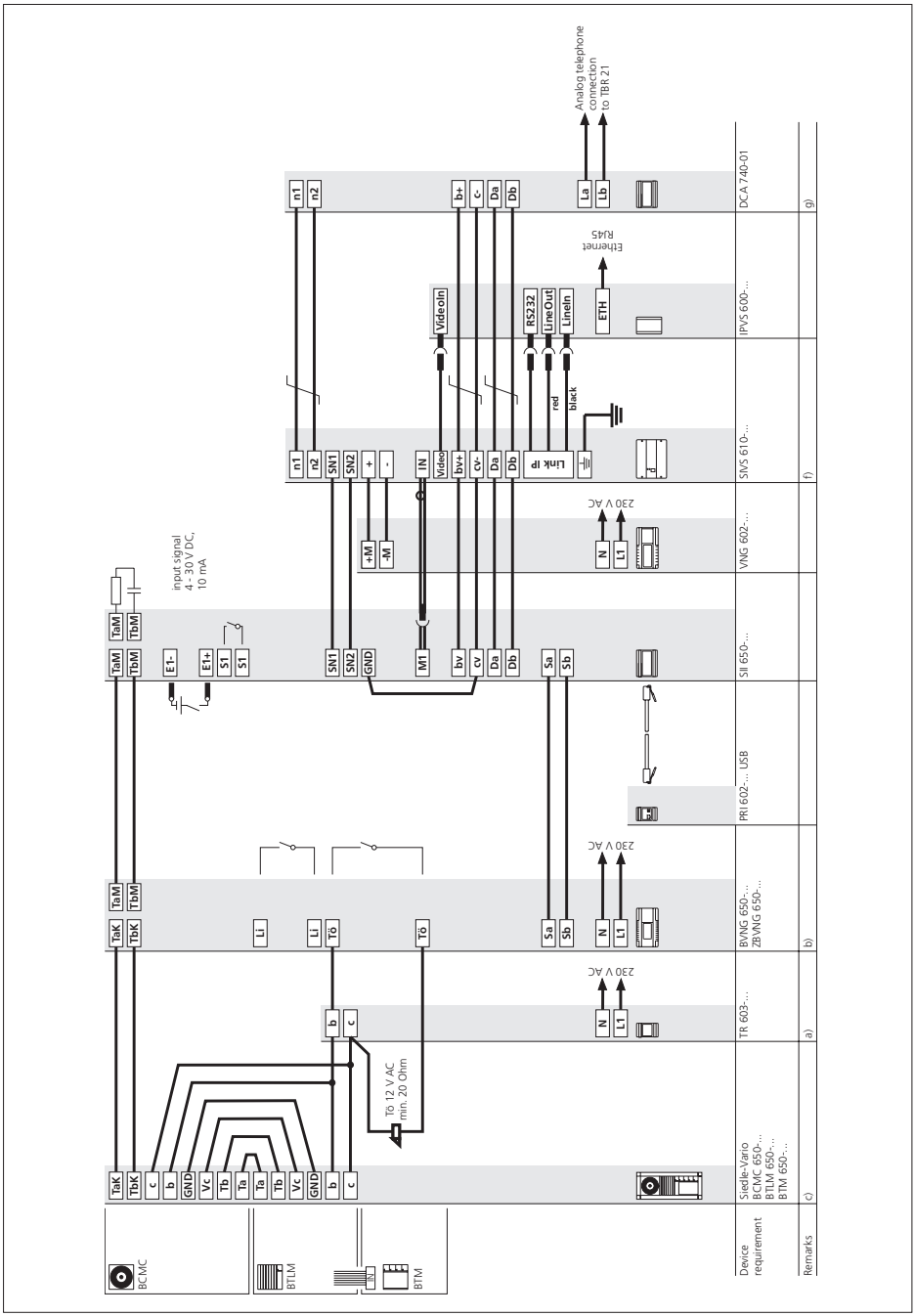
AS-TVHa-1/1 with DCIP 650-...

Functional characteristics
Up to 29 PC users (Software Clients) of a network can be called from the door station. Calling, speech and door release via the Software Client DCIP SC 600-... .
The Software Client must be installed on every PC which receives calls.
Call functions of the Software Client 3-tone chime as standard, a dedicated *.wav file can be assigned for each call tone.
It is not possible to listen in to an existing call from other PC users in the network.
The door is opened by the called PC user using a "virtual door release button", the light switching function is actuated using a "virtual light button". The door call can be muted with an optical display on the monitor.

Supplementary functions
• Additional PC users can be implemented with an additional line.
• Up to 10 PC users can be called in parallel with a call button from the door station.
Up to 49/45 PC users are possible at one IPVS... . Reduction to 45 PC users can result if 10 or more PC users are configured as parallel devices.

Remarks
a) The TR 603-... (12 V AC, 1.3 A) can supply 1 door release button and max. 24 bus call button modules with LED lighting (BTM 650-01, -02, -03 and -04).
With more than 24 illuminated bus call button modules, an additional TR 603-... is required.
Current consumers in the AS diagram:
Door release appr. 600 mA
Camera heating 100 mA
LED lighting
Per bus call button module 25 mA
b) Door release contact load in the bus video line rectifier BVNG 650-... max. 15 V AC, 30 V DC, 2 A.
• Light contact load in the bus video line rectifier max. 15 V AC, 30 V DC, 2 A.
c) Door release 12 V AC, use at least 20 Ohm, (e.g. TÖ 615-...), for possible connection variants see chapter 8, page 80**.**
f) Distance of the BVNG 650-.../ SII 650-... to the door station max. 100 m with J-Y(ST)Y 0.8 mm core material. During installation, ensure that the door release is laid in a separate cable. Supply voltage available from SIVS 610-... at the terminals bv+/cv- 15 V DC, max. 300 mA.

5 Installation
DCIP 650-...



In-Home bus: Video

Single-line system with DCA 740-...

AS-TVHa-1/1 with DCIP 650-...

Functional characteristics

Up to 29 PC users (Software Clients) of a network can be called from the door station. Calling and door release via the Software Client DCIP SC 600-... .

The Software Client must be installed on every PC which receives calls. The door call is switched via the DCA 740-... to the telephone system. A connected telephone can accept the door call.

Call functions of the Software Client 3-tone chime as standard, a dedicated *.wav file can be assigned for each call tone.

It is not possible to listen in to an existing call from other PC users in the network.

The door is opened by the called PC user using a "virtual door release button", the light switching function is actuated using a "virtual light button". The door call can be muted with an optical display on the monitor.

Supplementary functions

• Additional PC users can be implemented with an additional line.

• Up to 10 PC users can be called in parallel with a call button from the door station.

Up to 49/45 PC users are possible at one IPVS... . Reduction to 45 PC users can result if 10 or more PC users are configured as parallel devices.

Remarks

a) The TR 603-... (12 V AC, 1.3 A) can supply 1 door release button and max. 24 bus call button modules with LED lighting (BTM 650-01, -02, -03 and -04).

With more than 24 illuminated bus call button modules, an additional TR 603-... is required.

Current consumers in the AS diagram:

Door release appr. 600 mA
Camera heating 100 mA
LED lighting
Per bus call button module 25 mA

b) Door release contact load in the bus video line rectifier BVNG 650-... max. 15 V AC, 30 V DC, 2 A.

• Light contact load in the bus video line rectifier max. 15 V AC, 30 V DC, 2 A.

c) Door release 12 V AC, use at least 20 Ohm, (e.g. TÖ 615-...), for possible connection variants see chapter 8, page 80.

d) Conductor length bus telephone - storey call button ERT max. 50 m.

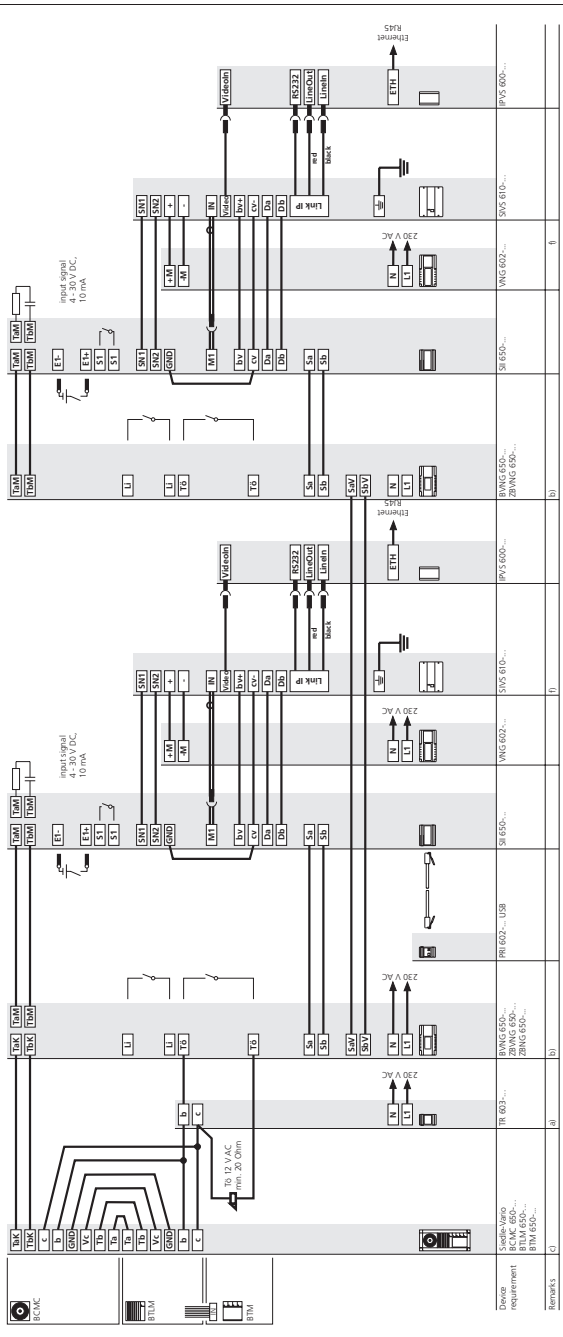
e) When using the internal video memory module, the bus telephone BTCV 850-... must be supplied by an additional direct voltage (20 - 30 V DC, 350 mA).

NG 602-... or VNG 602-... can be used for this purpose. Connection of the power supply to terminals +M/-M.

f) Distance of the BVNG 650-.../ SII 650-... to the door station max. 100 m with J-Y(ST)Y 0.8 mm core material. During installation, ensure that the door release is laid in a separate cable. Supply voltage available from SIVS 610-... at the terminals bv+/cv- 15 V DC, max. 300 mA.

The DCA 740-01 can optionally be connected to the PBX extension of a telephone system. Active door calls can then be routed via the telephone. The functions of the IP interface still remain possible.

5 Installation
DCIP 650-...



In-Home bus: Video
Multiple line system

AS-TVHa-1/1 with DCIP 650-...

Functional characteristics
Up to 29 PC users (Software Clients) in a network can be called per SII 650-... .
In a multiple-line system, several lines are connected. The line address must be set the same at each BVNG 650-..., SIVS 610-... and SII 650-... .
In each line, a maximum of one DCIP 650-... may be used.
In a multiple-line system with 2 lines, this means that 60 users can be called form a door station. Calling and door release via the Software Client DCIP SC 600-... .
The Software Client must be installed on every PC which receives calls. The door call is switched via the DCA 740-... to the telephone system. A connected telephone can accept the door call.
Call functions of the Software Client 3-tone chime as standard, a dedicated *.wav file can be assigned for each call tone.
It is not possible to listen in to an existing call from other PC users in the network.
The door is opened by the called PC user using a "virtual door release button", the light switching function is actuated using a "virtual light button". The door call can be muted with an optical display on the monitor.

Supplementary functions
• Additional PC users can be implemented with an additional line.
• Up to 10 PC users can be called in parallel with a call button from the door station.
UP to 49/45 PC users are possible at one IPVS... . Reduction to 45 PC users can result if 10 or more PC users are configured as parallel devices.

Remarks
a) The TR 603-... (12 V AC, 1.3 A) can supply 1 door release button and max. 24 bus call button modules with LED lighting (BTM 650-01, -02, -03 and -04).
With more than 24 illuminated bus call button modules, an additional TR 603-... is required.
Current consumers in the AS diagram:
Door release appr. 600 mA
Camera heating 100 mA
LED lighting
Per bus call button module 25 mA
b) Door release contact load in the bus video line rectifier BVNG 650-... max. 15 V AC, 30 V DC, 2 A.
• Light contact load in the bus video line rectifier max. 15 V AC, 30 V DC, 2 A.
c) Door release 12 V AC, use at least 20 Ohm, (e.g. TÖ 615-...), for possible connection variants see chapter 8, page 80.
f) Distance of the BVNG 650-.../ SII 650-... to the door station max. 100 m with J-Y(ST)Y 0.8 mm core material. During installation, ensure that the door release is laid in a separate cable. Supply voltage available from SIVS 610-... at the terminals bv+/cv- 15 V DC, max. 300 mA.
The DCA 740-01 can optionally be connected to the PBX extension of a telephone system. Active door calls can then be routed via the telephone. The functions of the IP interface still remain possible.
g) The DCA 740-01 can optionally be connected to the PBX extension of a telephone system. Active door calls can then be routed via the telephone. The function of the IP interface remains possible.

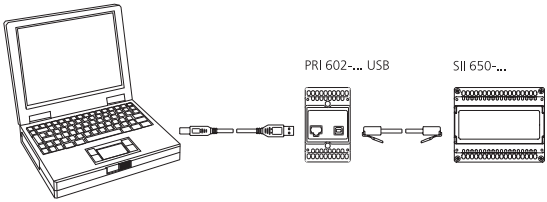
6 Commissioning DCIP 650-...

A number of steps have to be executed for commissioning the DCIP 650-... . The specified sequence must be adhered to without fail.

• Prior to programming the DoorCom IP 650-... the entire In-Home system must be programmed and documented with the bus programming software BPS 650-... .

• Complete programming of the DoorCom IP 650-... takes place using the bus programming software BPS 650-... via the SII 650-...

Connection of the PC to SII 650-...



Issue of the IP address and subnet mask in the IPVS 600-...

• The connection can be established using a crossover network cable. The IPVS 600-... can also be addressed via the network if the PC and IPVS 600-.. are located in the same address area.

• Start the Internet Explorer on the PC and enter the following in the address line:

http://192.168.0.1

The IP settings in the as-delivered status of the IPVS 600-...
IP address 192.168.0.1
Subnet mask 255.255.255.0
Gateway address 0.0.0.0
User name: Service
Password: None issued on delivery

• The user interface is opened.

• In the user interface, select the menu point **Settings**.

• On the left-hand side, select the menu point **Service parameters**.

• Click the submenu **Network**. On the right-hand side, the relevant settings are opened up.

• The following settings can be performed for operation in the network.
IP address
Subnet mask address
Video transmission
HTTP browser port
Type of network connection

Changes to the IP address or subnet mask address are transmitted to the device by clicking on the **Set** button. However, these only become valid after restarting the device.

• After entering a new IP address, click onto the Set button.

• Enter the old IP address in the address line of the web browser, followed by /reset (for example 192.168.0.1/reset). The IPVS is restarted and can subsequently only be reached using the new IP address.

Step 1:
Read out In-Home bus

All existing devices within the In-Home bus are read in and are then visible in the BPS 650-... as a tree structure. Each BVNG 650-... possesses a unique address. This must be set the same at the SII 650-... and SIVS 610-... .

Step 2:
(only with multiple line system)
Manually add SII 650-...

In the BPS 650-... , select the relevant line and add the SII 650-... The address of BVNG 650-..., SIVS 610-... and SII 650-... must be set the same. An already programmed SII 650-... is automatically detected by the BPS 650-... .

Step 3
Create virtual users
In the first table DCIP-SC (virtual users) create the users. Each user should be given a unique name wherever possible such as Secretarial.

Step 4
In the tree structure of the BPS 650-... , select the relevant door station and assign the users to the previously created call buttons. Subsequently transfer the configuration to SII 650-.../ SIVS 610-... .

Step 5:
In the tree structure of the BPS 650-..., select the SII 650-... . Pressing the Configuration button in the DCIP-SC... will open a new window. In this window, it is possible to select which users are read out to the configuration being created. In this selection process, different configurations can be generated for different software clients.

Step 6:
The set configuration (*.dcip) can be imported into Software Client. A USB stick is advisable for transmission of the files.

7 Client-Software DCIP SC 600-...

Installation of the Software Clients
The Software Client DCIP SC 600-... (Ver. 1.1. or higher) must be installed on each PC which is intended to receive door calls. The Software Client communicates with the remote station, the DCIP 650-... Following the installation, the file (*.dcip) generated by the bus programming software BPS 650-... must be imported. The addresses to which the client is intended to respond are selected from the imported file.

System requirements for the Software Client
• Operating system Microsoft Windows XP/Vista 32/64 Bit with the latest service packs, Windows 7 32/64 Bit
• Computer Pentium IV from 2 GHz with a storage capacity of at least 1 GB RAM, (64 Bit min. 2 GB RAM)
• Graphic card with at least 1024x768, 16 bit colour depth and latest driver updates, Nvidia Geforce6600, Nvidia Quadro FX1400, ATI RADEON 9800/X600/X800,
• 100 Mbit Ethernet card
• Sound card and
• Microsoft DirectX 9.0c.

Procedure for installation
• Install the DCIP SC 600 software
• It may be necessary to install additional programs such as Microsoft DirectX Version 9.0c.
• Start the Software Client
• The Software Client configuration can be opened by pressing the right-hand mouse button on the virtual in-house telephone.
• In the first tab Configuration, select **add DCIP SC file** and import the file exported by the configuration software (*.dcip).
• It is then possible under **DCIP SC-Edit file** to assign an IWA address to the Software Client for the relevant DCIP 650-..., to which you wish the PC to respond.
• Other IWA addresses can optionally be assigned to the Software Client 2. (e.g. for receiving an additional door call).

Licence regulations
For each installation of the Software Client on a PC, a licence is required for the DCIP SC 600-0.
The standard ex works DCIP 650-... includes 4 licences. Any additional licences required must be subsequently purchased.

Audio transmission
The quality of the audio transmission via the Software Client DCIP SC 600-0 at the PC depends largely on the equipment of the PC or the sound card used in it, and consequently cannot be directly influenced by the PC software. If a secured audio transmission in TC quality is required, or if an audio connection must always be possible to and from the door irrespective of your network or the status of the PC, then we recommend using our DCA 740-01.

Possible error sources

• No speech connection from the PC to the door. The microphone amplifier may not be activated.

• Installation must take place as administrator, so that all registered users have access to the Software Client later.

• Marked echo on the line in speech mode.

In the Windows volume regulation for sound reproduction, **Sound off** must be activated under the microphone controller. This selection prevents the PC microphone signal being reproduced in the PC loudspeaker.

• The other party is not audible at the PC.

Possible causes:

• No loudspeaker connected at the PC/monitor

• No driver for the sound card

• The loudspeaker is set to mute under the audio properties. **(sound off)**

• If there is an active firewall, the application file **DCIP SC 600-0.exe** must be defined as an exception or as a permanently authorized program/application.

• In order to establish a video link, it may be necessary, for the drivers for the used graphic card to be updated to the latest status.

Other settings in the Software Client:

Free buttons

Selection of functions for buttons 1-3. Each button can be assigned an individual inscription text.

Call tones

Selection of call tones for door call and internal call. Alternatively, you can select your own *.wav files. Setting the volume for call tones

Speech volume

Setting the speech volume. Loudspeakers and microphones can be separately set. It may be necessary to carry out other settings in the control panel under "Sound".

General

Selection of the Software Client language.

"Start application automatically after logging onto the system?"

7 DoorCom DCA 740-01

The DoorCom Analog DCA 740-... is used as an interface between DoorCom IP and an analog telephone connection of a telecommunication system.

It is possible to assign the maximum number of possible users in a line to the DCA 740-... . The functionality depends in the main on the capability of the telephone system / on the telephones connected to it.

Assignments and functionality for calls via the DCA 740-... are saved in the SII 650-... . This can be programmed using BPS 650-... if the connection via DCA 740-... is selected.

The selection of users and control and switching functions takes place by means of DTMF dialling. The telecommunications system and the connected telephones must therefore possess DTMF dialling capability.

Power supply
The DCA 740-... is supplied directly from the SIVS 610-... . A separate supply is consequently not required. The power to the a/b public network interface is supplied from the telecommunication system or the a/b public network connection from the exchange. It is not possible to connect an individual public network telephone directly to the a/b line of the DCA 740.

8 DoorCom IP Factory setting IPVS 600-...

With the reset button at the IPVS 600-... , it can be reset to the as-delivered status. It is essential to load the Siedle factory configuration in the IPVS 600-... after a reset. Proceed as follows.
1 Open the Internet Explorer.
2 Access the video server (IPVS) with its IP address
3 Access the following menus in sequence:
Setting
Service parameters
Firmware and configuration upload
4 Under Configuration upload, select the configuration file with „search...". The file is on the supplied CD.
5 Select the file with the rtc_image with upload.
Using the Upload button, start the update.

9 Servicing
Measured values

**Measurement values for DoorCom IP,
to be measured using a digital multimeter**

Idle status	**min.**	**max.**
Voltage +/ at the SIVS 610-...	24 V DC	30 V DC
Current consumption		500 mA

Conductor lengths	
VNG 602-... supplies 1 DCIP 650-...	100 m
VNG 602-... supplies 2 DCIP 650-...	50 m

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The current issue of the "DoorCom IP" system manual is available from the download area under www.siedle.de.

Technical additions and printing errors do not constitute grounds for any claims to damages.

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